Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Date: 25/05/2022

Lab ID	:	**CP-2022-09-21-23**
Project Name	:	Additional and Alteration of School Buildings at Kanakanagara, Allalasandra and Ambedkar Nagara in Ward No. 04
Agency	:	M/s Goutham Construction Prop. Sri. Raghunatha B P, No:47, 2nd Main, Muneshwara Layout, Laggere, Near Outer Ringroad, Bangalore-50058
Customer's Reference	:	BBMP/EE/YNK.D/EPMT-14/W.O/84/2021-22
Date of Receipt	:	20-05-2022
Customer ID	:	Kanakanagara School GF Roof Slab
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M25 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5
Date of test	:	25/05/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Kanakanagara School GF Roof Slab	M25	18/05/2022	25/05/2022	149.50 X 151.21 X 149.77	22606	9.007	526.9	23.3	22.9
2	Kanakanagara School GF Roof Slab	M25	18/05/2022	25/05/2022	149.02 X 151.59 X 150.80	22590	8.362	514.2	22.8	
3	Kanakanagara School GF Roof Slab	M25	18/05/2022	25/05/2022	151.31 X 150.29 X 150.41	22740	8.495	517.4	22.8	

* The results obtained are satisfactory as per standard requirements.

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TEST REPORT OF CEMENT CONCRETE CUBES

Date: 15/06/2022

Lab ID	:	CP-2022-09-21-23
Project Name	:	Additional and Alteration of School Buildings at Kanakanagara, Allalasandra and Ambedkar Nagara in Ward No. 04
Agency	:	M/s Goutham Construction Prop. Sri. Raghunatha B P, No:47, 2nd Main, Muneshwara Layout, Laggere, Near Outer Ringroad, Bangalore-50058
Customer's Reference	:	BBMP/EE/YNK.D/EPMT-14/W.O/84/2021-22
Date of Receipt	:	20-05-2022
Customer ID	:	Kanakanagara School GF Roof Slab
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M25 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5
Date of test	:	15/06/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Kanakanagara School GF Roof Slab	M25	18/05/2022	15/06/2022	151.03 X 151.92 X 151.84	22943	8.823	627.6	27.4	27.3
2	Kanakanagara School GF Roof Slab	M25	18/05/2022	15/06/2022	150.20 X 150.24 X 151.85	22567	8.656	597.4	26.5	
3	Kanakanagara School GF Roof Slab	M25	18/05/2022	15/06/2022	151.60 X 150.76 X 150.14	22856	9.073	640.9	28.0	

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Date: 15/06/2022

Lab ID : CP-2022-09-21-23

Project Name : Additional and Alteration of School Buildings at Kanakanagara, Allalasandra and Ambedkar Nagara in Ward No. 04

Agency : M/s Goutham Construction Prop. Sri. Raghunatha B P, No:47, 2nd Main, Muneshwara Layout, Laggere, Near Outer Ringroad, Bangalore-50058

Customer's Reference : BBMP/EE/YNK.D/EPMT-14/W.O/84/2021-22

Date of Receipt : 20-05-2022

Customer ID : Kanakanagara School GF Roof Beam

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M25 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 15/06/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
					(mm)	(Sq.mm)	(kg)	(KN)	(N/mm^2)	(N/mm^2)
1	Kanakanagara School GF Roof Beam	M25	18/05/2022	15/06/2022	151.17 X 151.84 X 151.81	22954	8.224	627.2	27.3	27.3
2	Kanakanagara School GF Roof Beam	M25	18/05/2022	15/06/2022	151.29 X 150.21 X 151.73	22725	8.110	592.8	26.1	
3	Kanakanagara School GF Roof Beam	M25	18/05/2022	15/06/2022	149.80 X 149.18 X 151.00	22347	8.403	633.6	28.4	

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TEST REPORT OF CEMENT CONCRETE CUBES

Date: 06/07/2022

Lab ID	:	CP-2022-09-21-23
Project Name	:	Additional and Alteration of School Buildings at Kanakanagara, Allalasandra and Ambedkar Nagara in Ward No. 04
Agency	:	M/s Goutham Construction Prop. Sri. Raghunatha B P, No:47, 2nd Main, Muneshwara Layout, Laggere, Near Outer Ringroad, Bangalore-50058
Customer's Reference	:	BBMP/EE/YNK.D/EPMT-14/W O/84/2021-22
Date of Receipt	:	01-07-2022
Customer ID	:	Allalsandra Sri Shakthi Bhavana Near Anganwadi Column upto Parapet Level
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M25 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5
Date of test	:	06/07/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Allalsandra Sri Shakthi Bhavana Near Anganwadi Column upto Parapet Level	M25	29/06/2022	06/07/2022	149.76 X 149.62 X 151.57	22407	8.642	523.2	23.3	22.9
2	Allalsandra Sri Shakthi Bhavana Near Anganwadi Column upto Parapet Level	M25	29/06/2022	06/07/2022	149.52 X 150.89 X 149.85	22560	8.431	515.2	22.8	
3	Allalsandra Sri Shakthi Bhavana Near Anganwadi Column upto Parapet Level	M25	29/06/2022	06/07/2022	149.16 X 149.27 X 150.42	22266	8.963	504.3	22.6	

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TEST REPORT OF CEMENT CONCRETE CUBES

Date: 29/06/2022

Lab ID	:	CP-2022-09-21-23
Project Name	:	Additional and Alteration of School Buildings at Kanakanagara, Allalasandra and Ambedkar Nagara in Ward No. 04
Agency	:	M/s Goutham Construction Prop. Sri. Raghunatha B P, No:47, 2nd Main, Muneshwara Layout, Laggere, Near Outer Ringroad, Bangalore-50058
Customer's Reference	:	BBMP/EE/YNK.D/EPMT-14/W.O/84/2021-22
Date of Receipt	:	24-06-2022
Customer ID	:	Allalsandra Sri Shakthi Bhavana Near Anganwadi Beam
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M25 / 7 Days Compressive Strength
Reference to BIS codes	:	IS. 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl 5
Date of test	:	29/06/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
					(mm)	(Sq.mm)	(kg)	(KN)	(N/mm^2)	(N/mm^2)
1	Allalsandra Sri Shakthi Bhavana Near Anganwadi Beam	M25	22/06/2022	29/06/2022	150.30 X 151.33 X 151.22	22744	8.271	532.3	23.4	22.7
2	Allalsandra Sri Shakthi Bhavana Near Anganwadi Beam	M25	22/06/2022	29/06/2022	149.22 X 150.61 X 151.12	22475	8.871	498.0	22.2	
3	Allalsandra Sri Shakthi Bhavana Near Anganwadi Beam	M25	22/06/2022	29/06/2022	151.81 X 149.98 X 150.93	22769	8.208	511.1	22.4	

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TEST REPORT OF CEMENT CONCRETE CUBES

Date: 20/07/2022

Lab ID	:	**CP-2022-09-21-23**
Project Name	:	Additional and Alteration of School Buildings at Kanakanagara, Allalasandra and Ambedkar Nagara in Ward No. 04
Agency	:	M/s Goutham Construction Prop. Sri. Raghunatha B P, No:47, 2nd Main, Muneshwara Layout, Laggere, Near Outer Ringroad, Bangalore-50058
Customer's Reference	:	BBMP/EE/YNK.D/EPMT-14/W.O/84/2021-22
Date of Receipt	:	24-06-2022
Customer ID	:	Allalsandra Sri Shakthi Bhavana Near Anganwadi Beam
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M25 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5
Date of test	:	20/07/2022

SL No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Allalsandra Sri Shakthi Bhavana Near Anganwadi Beam	M25	22/06/2022	20/07/2022	150.85 X 151.83 X 150.61	22904	8.569	618.8	27.0	27.5
2	Allalsandra Sri Shakthi Bhavana Near Anganwadi Beam	M25	22/06/2022	20/07/2022	149.07 X 151.87 X 149.62	22639	8.116	601.5	26.6	
3	Allalsandra Sri Shakthi Bhavana Near Anganwadi Beam	M25	22/06/2022	20/07/2022	150.57 X 149.41 X 151.56	22496	8.204	652.0	29.0	

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TEST REPORT OF CEMENT CONCRETE CUBES

Date: 04/06/2022

Lab ID	:	**CP-2022-09-21-23**
Project Name	:	Additional and Alteration of School Buildings at Kanakanagara, Allalasandra and Ambedkar Nagara in Ward No. 04
Agency	:	M/s Goutham Construction Prop. Sri. Raghunatha B P, No:47, 2nd Main, Muneshwara Layout, Laggere, Near Outer Ringroad, Bangalore-50058
Customer's Reference	:	BBMP/EE/YNK.D/EPMT-14/W.O/84/2021-22
Date of Receipt	:	30-05-2022
Customer ID	:	Kanakanagara School FF Flooring Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M15 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5
Date of test	:	04/06/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Kanakanagara School FF Flooring Concrete	M15	28/05/2022	04/06/2022	151.57 X 150.07 X 151.16	22746	8.223	295.7	13.0	12.9
2	Kanakanagara School FF Flooring Concrete	M15	28/05/2022	04/06/2022	151.30 X 151.26 X 151.59	22885	8.104	294.3	12.9	
3	Kanakanagara School FF Flooring Concrete	M15	28/05/2022	04/06/2022	149.48 X 151.48 X 149.91	22643	8.193	291.4	12.9	

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TEST REPORT OF CEMENT CONCRETE CUBES

Date: 25/06/2022

Lab ID	:	CP-2022-09-21-23
Project Name	:	Additional and Alteration of School Buildings at Kanakanagara, Allalasandra and Ambedkar Nagara in Ward No. 04
Agency	:	M/s Goutham Construction Prop. Sri. Raghunatha B P, No:47, 2nd Main, Muneshwara Layout, Laggere, Near Outer Ringroad, Bangalore-50058
Customer's Reference	:	BBMP/EE/YNK.D/EPMT-14/W.O/84/2021-22
Date of Receipt	:	30-05-2022
Customer ID	:	Kanakanagara School FF Flooring Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M15 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5
Date of test	:	25/06/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Kanakanagara School FF Flooring Concrete	M15	28/05/2022	25/06/2022	149.62 X 149.18 X 149.35	22319	8.828	620.0	27.8	27.8
2	Kanakanagara School FF Flooring Concrete	M15	28/05/2022	25/06/2022	149.95 X 151.90 X 149.85	22778	8.748	605.6	26.6	
3	Kanakanagara School FF Flooring Concrete	M15	28/05/2022	25/06/2022	151.94 X 149.03 X 149.72	22643	8.694	654.8	28.9	

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TEST REPORT OF CEMENT CONCRETE CUBES

Date: 17/06/2022

Lab ID : CP-2022-09-21-23
Project Name : Additional and Alteration of School Buildings at Kanakanagara, Allalasandra and Ambedkar Nagara in Ward No. 04
Agency : M/s Goutham Construction Prop. Sri. Raghunatha B P, No:47, 2nd Main, Muneshwara Layout, Laggere, Near Outer Ringroad, Bangalore-50058
Customer's Reference : BBMP/EE/YNK.D/EPMT-14/W.O/84/2021-22
Date of Receipt : 13-06-2022
Customer ID : Allalsandra Sri Shakthi Bhavana Near Anganwadi Column Concrete
Sample Type /Size : 150X150X150 mm
Sample grade/Age : M25 / 7 Days Compressive Strength
Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl 5
Date of test : 17/06/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Allalsandra Sri Shakthi Bhavana Near Anganwadi Column Concrete	M25	10/06/2022	17/06/2022	149.51 X 151.13 X 151.78	22595	8.997	527.0	23.3	22.8
2	Allalsandra Sri Shakthi Bhavana Near Anganwadi Column Concrete	M25	10/06/2022	17/06/2022	150.50 X 149.28 X 150.23	22467	8.121	509.0	22.7	
3	Allalsandra Sri Shakthi Bhavana Near Anganwadi Column Concrete	M25	10/06/2022	17/06/2022	151.85 X 150.43 X 151.14	22843	8.878	512.5	22.4	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2022-09-21-23 **Date: 23/06/2022**

Project Name : Additional and Alteration of School Buildings at Kanakanagara, Allalasandra and Ambedkar Nagara in Ward No. 04

Agency : M/s Goutham Construction Prop. Sri. Raghunatha B P, No:47, 2nd Main, Muneshwara Layout, Laggere, Near Outer Ringroad, Bangalore-50058

Customer's Reference : BBMP/EE/YNK.D/EPMT-14/W.O/84/2021-22

Date of Receipt : 18-06-2022

Customer ID : Allalsandra Sri Shakthi Bhavana Near Anganwadi Lintel Beam

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M25 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 23/06/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Allalsandra Sri Shakthi Bhavana Near Anganwadi Lintel Beam	M25	16/06/2022	23/06/2022	151.72 X 149.14 X 150.21	22628	8.805	539.7	23.8	22.9
2	Allalsandra Sri Shakthi Bhavana Near Anganwadi Lintel Beam	M25	16/06/2022	23/06/2022	149.32 X 151.78 X 150.98	22664	8.783	511.6	22.6	
3	Allalsandra Sri Shakthi Bhavana Near Anganwadi Lintel Beam	M25	16/06/2022	23/06/2022	150.65 X 151.98 X 151.34	22897	8.699	508.6	22.2	

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Certificate No.: TC-5548

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2022-09-21-23

Date: 23/04/2022

Project Name : Additional and Alteration of School Buildings at Kanakanagara, Allalasandra and Ambedkar Nagara in Ward No. 04

Agency : M/s Goutham Construction Prop. Sri. Raghunatha B P, No:47, 2nd Main, Muneshwara Layout, Laggere, Near Outer Ringroad, Bangalore-50058

Customer's Reference : BBMP/EE/YNK.D/EPMT-14/W.O/84/2021-22

Date of Receipt : 18-04-2022

Customer ID : Kanakanagara School Basement Coping Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 23/04/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Kanakanagara School Basement Coping Concrete	M20	16/04/2022	23/04/2022	149.34 X 149.20 X 150.70	22281	8.594	410.9	18.4	18.5
2	Kanakanagara School Basement Coping Concrete	M20	16/04/2022	23/04/2022	151.18 X 151.65 X 151.97	22926	8.614	416.8	18.2	
3	Kanakanagara School Basement Coping Concrete	M20	16/04/2022	23/04/2022	150.88 X 150.61 X 151.36	22725	8.967	429.0	18.9	

* The results obtained are satisfactory as per standard requirements.

Note:

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2022-09-21-23 **Date: 30/04/2022**

Project Name : Additional and Alteration of School Buildings at Kanakanagara, Allalasandra and Ambedkar Nagara in Ward No. 04

Agency : M/s Goutham Construction Prop. Sri. Raghunatha B P, No:47, 2nd Main, Muneshwara Layout, Laggere, Near Outer Ringroad, Bangalore-50058

Customer's Reference : BBMP/EE/YNK.D/EPMT-14/W.O/84/2021-22

Date of Receipt : 25-04-2022

Customer ID : Kanakanagara School Column Upto Plinth Level

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M25 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 30/04/2022

SL No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Kanakanagara School Column Upto Plinth Level	M25	23/04/2022	30/04/2022	149.92 X 150.22 X 149.80	22521	8.148	525.0	23.3	22.7
2	Kanakanagara School Column Upto Plinth Level	M25	23/04/2022	30/04/2022	150.04 X 150.59 X 151.35	22594	8.788	509.4	22.5	
3	Kanakanagara School Column Upto Plinth Level	M25	23/04/2022	30/04/2022	149.99 X 150.88 X 149.12	22630	8.260	501.5	22.2	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2022-09-21-23** **Date: 04/06/2022**

Project Name : Additional and Alteration of School Buildings at Kanakanagara, Allalasandra and Ambedkar Nagara in Ward No. 04

Agency : M/s Goutham Construction Prop. Sri. Raghunatha B P, No:47, 2nd Main, Muneshwara Layout, Laggere, Near Outer Ringroad, Bangalore-50058

Customer's Reference : BBMP/EE/YNK.D/EPMT-14/W.O/84/2021-22

Date of Receipt : 09-05-2022

Customer ID : Kanakanagara School Column Upto GF Level

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M25 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 04/06/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
					(mm)	(Sq.mm)	(kg)	(KN)	(N/mm^2)	(N/mm^2)
1	Kanakanagara School Column Upto GF Level	M25	07/05/2022	04/06/2022	150.74 X 150.28 X 151.15	22654	8.728	612.3	27.0	27.4
2	Kanakanagara School Column Upto GF Level	M25	07/05/2022	04/06/2022	149.56 X 149.76 X 150.92	22399	8.846	590.7	26.4	
3	Kanakanagara School Column Upto GF Level	M25	07/05/2022	04/06/2022	151.63 X 149.91 X 151.16	22731	8.529	654.0	28.8	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2022-09-21-23** **Date: 20/05/2022**

Project Name : Additional and Alteration of School Buildings at Kanakanagara, Allalasandra and Ambedkar Nagara in Ward No. 04

Agency : M/s Goutham Construction Prop. Sri. Raghunatha B P, No:47, 2nd Main, Muneshwara Layout, Laggere, Near Outer Ringroad, Bangalore-50058

Customer's Reference : BBMP/EE/YNK.D/EPMT-14/W.O/84/2021-22

Date of Receipt : 15-05-2022

Customer ID : Kanakanagara School GF Lintel Beam

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M25 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 20/05/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Kanakanagara School GF Lintel Beam	M25	13/05/2022	20/05/2022	151.27 X 150.70 X 149.54	22796	8.593	536.6	23.5	22.9
2	Kanakanagara School GF Lintel Beam	M25	13/05/2022	20/05/2022	150.62 X 150.92 X 149.96	22731	8.809	518.3	22.8	
3	Kanakanagara School GF Lintel Beam	M25	13/05/2022	20/05/2022	150.33 X 151.51 X 149.85	22777	8.171	507.0	22.3	

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TEST REPORT OF CEMENT CONCRETE CUBES

Date: 22/02/2022

Lab ID : CP-2022-09-21-23

Project Name : Additional and Alteration of School Buildings at Kanakanagara, Allalasandra and Ambedkar Nagara in Ward No. 04

Agency : M/s Goutham Construction Prop. Sri. Raghunatha B P, No:47, 2nd Main, Muneshwara Layout, Laggere, Near Outer Ringroad, Bangalore-50058

Customer's Reference : BBMP/EE/YNK.D/EPMT-14/W.O/84/2021-22

Date of Receipt : 17-02-2022

Customer ID : Ambedkar Colony Anganawadi Basement Coping Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 22/02/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Ambedkar Colony Anganawadi Basement Coping Concrete	M20	15/02/2022	22/02/2022	149.85 X 150.54 X 149.42	22560	8.721	418.3	18.5	18.3
2	Ambedkar Colony Anganawadi Basement Coping Concrete	M20	15/02/2022	22/02/2022	150.52 X 151.51 X 149.47	22805	8.741	410.7	18.0	
3	Ambedkar Colony Anganawadi Basement Coping Concrete	M20	15/02/2022	22/02/2022	150.73 X 151.00 X 149.54	22759	8.264	414.9	18.2	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2022-09-21-23** **Date: 15/03/2022**

Project Name : Additional and Alteration of School Buildings at Kanakanagara, Allalasandra and Ambedkar Nagara in Ward No. 04

Agency : M/s Goutham Construction Prop. Sri. Raghunatha B P, No:47, 2nd Main, Muneshwara Layout, Laggere, Near Outer Ringroad, Bangalore-50058

Customer's Reference : BBMP/EE/YNK.D/EPMT-14/W.O/84/2021-22

Date of Receipt : 17-02-2022

Customer ID : Ambedkar Colony Anganawadi Basement Coping Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS. 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 15/03/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Ambedkar Colony Anganawadi Basement Coping Concrete	M20	15/02/2022	15/03/2022	151.69 X 150.99 X 151.00	22905	8.140	545.9	23.8	23.4
2	Ambedkar Colony Anganawadi Basement Coping Concrete	M20	15/02/2022	15/03/2022	150.04 X 150.61 X 151.26	22597	8.694	509.4	22.5	
3	Ambedkar Colony Anganawadi Basement Coping Concrete	M20	15/02/2022	15/03/2022	150.13 X 149.33 X 151.67	22419	8.166	532.9	23.8	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2022-09-21-23** **Date: 25/03/2022**

Project Name : Additional and Alteration of School Buildings at Kanakanagara, Allalasandra and Ambedkar Nagara in Ward No. 04

Agency : M/s Goutham Construction Prop. Sri. Raghunatha B P, No:47, 2nd Main, Muneshwara Layout, Laggere, Near Outer Ringroad, Bangalore-50058

Customer's Reference : BBMP/EE/YNK.D/EPMT-14/W.O/84/2021-22

Date of Receipt : 21-03-2022

Customer ID : Ambedkar Colony Anganawadi GF Roof Slab

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M25 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 25/03/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Ambedkar Colony Anganawadi GF Roof Slab	M25	18/03/2022	25/03/2022	149.19 X 149.20 X 149.40	22259	8.207	527.2	23.7	23.0
2	Ambedkar Colony Anganawadi GF Roof Slab	M25	18/03/2022	25/03/2022	150.33 X 150.07 X 150.39	22561	8.113	514.5	22.8	
3	Ambedkar Colony Anganawadi GF Roof Slab	M25	18/03/2022	25/03/2022	149.70 X 151.01 X 151.72	22607	8.443	505.9	22.4	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	**CP-2022-09-21-23** **Date: 25/04/2022**
Project Name	:	Additional and Alteration of School Buildings at Kanakanagara, Allalasandra and Ambedkar Nagara in Ward No. 04
Agency	:	M/s Goutham Construction Prop. Sri. Raghunatha B P, No:47, 2nd Main, Muneshwara Layout, Laggere, Near Outer Ringroad, Bangalore-50058
Customer's Reference	:	BBMP/EE/YNK.D/EPMT-14/W.O/84/2021-22
Date of Receipt	:	30-03-2022
Customer ID	:	Ambedkar Colony Anganawadi GF Flooring Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M15 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 25/04/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Ambedkar Colony Anganawadi GF Flooring Concrete	M15	28/03/2022	25/04/2022	150.56 X 151.57 X 151.04	22820	8.357	393.2	17.2	17.4
2	Ambedkar Colony Anganawadi GF Flooring Concrete	M15	28/03/2022	25/04/2022	149.34 X 150.61 X 150.45	22492	9.091	401.7	17.9	
3	Ambedkar Colony Anganawadi GF Flooring Concrete	M15	28/03/2022	25/04/2022	151.48 X 149.96 X 149.11	22715	8.699	390.3	17.2	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2022-09-21-23** **Date: 05/03/2022**

Project Name : Additional and Alteration of School Buildings at Kanakanagara, Allalasandra and Ambedkar Nagara in Ward No. 04

Agency : M/s Goutham Construction Prop. Sri. Raghunatha B P, No:47, 2nd Main, Muneshwara Layout, Laggere, Near Outer Ringroad, Bangalore-50058

Customer's Reference : BBMP/EE/YNK.D/EPMT-14/W.O/84/2021-22

Date of Receipt : 28-02-2022

Customer ID : Ambedkar Colony Anganawadi Plinth Beam

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M25 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 05/03/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
					(mm)	(Sq.mm)	(kg)	(KN)	(N/mm^2)	(N/mm^2)
1	Ambedkar Colony Anganawadi Plinth Beam	M25	26/02/2022	05/03/2022	150.03 X 149.37 X 150.70	22410	8.758	524.4	23.4	23.0
2	Ambedkar Colony Anganawadi Plinth Beam	M25	26/02/2022	05/03/2022	151.10 X 151.19 X 149.18	22845	8.370	517.8	22.7	
3	Ambedkar Colony Anganawadi Plinth Beam	M25	26/02/2022	05/03/2022	151.53 X 149.13 X 151.18	22598	8.669	517.6	22.9	

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TEST REPORT OF CEMENT CONCRETE CUBES

Date: 14/03/2022

Lab ID	:	**CP-2022-09-21-23**
Project Name	:	Additional and Alteration of School Buildings at Kanakanagara, Allalasandra and Ambedkar Nagara in Ward No. 04
Agency	:	M/s Goutham Construction Prop. Sri. Raghunatha B P, No:47, 2nd Main, Muneshwara Layout, Laggere, Near Outer Ringroad, Bangalore-50058
Customer's Reference	:	BBMP/EE/YNK.D/EPMT-14/W.O/84/2021-22
Date of Receipt	:	08-03-2022
Customer ID	:	Ambedkar Colony Anganawadi Column Upto GF Level
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M25 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5
Date of test	:	13/03/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Ambedkar Colony Anganawadi Column Upto GF Level	M25	06/03/2022	13/03/2022	150.91 X 149.77 X 150.74	22601	9.081	532.6	23.6	22.6
2	Ambedkar Colony Anganawadi Column Upto GF Level	M25	06/03/2022	13/03/2022	150.75 X 149.87 X 151.25	22592	8.181	499.4	22.1	
3	Ambedkar Colony Anganawadi Column Upto GF Level	M25	06/03/2022	13/03/2022	150.41 X 151.06 X 149.03	22721	8.350	504.3	22.2	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2022-09-21-23 **Date: 25/03/2022**

Project Name : Additional and Alteration of School Buildings at Kanakanagara, Allalasandra and Ambedkar Nagara in Ward No. 04

Agency : M/s Goutham Construction Prop. Sri. Raghunatha B P, No:47, 2nd Main, Muneshwara Layout, Laggere, Near Outer Ringroad, Bangalore-50058

Customer's Reference : BBMP/EE/YNK.D/EPMT-14/W.O/84/2021-22

Date of Receipt : 21-03-2022

Customer ID : Ambedkar Colony Anganawadi GF Roof Beam

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M25 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 25/03/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
					(mm)	(Sq.mm)	(kg)	(KN)	(N/mm^2)	(N/mm^2)
1	Ambedkar Colony Anganawadi GF Roof Beam	M25	18/03/2022	25/03/2022	151.53 X 149.31 X 150.96	22625	8.390	524.0	23.2	22.7
2	Ambedkar Colony Anganawadi GF Roof Beam	M25	18/03/2022	25/03/2022	149.22 X 149.48 X 149.32	22306	8.916	499.9	22.4	
3	Ambedkar Colony Anganawadi GF Roof Beam	M25	18/03/2022	25/03/2022	149.58 X 149.14 X 149.95	22307	8.744	504.5	22.6	

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Quality Manager

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TEST REPORT FOR PLASTER SAND

Lab ID	:	**CP-2022-09-21-23** **Date: 28-02-2022**
Project Name	:	Additional and Alteration of School Buildings at Kanakanagara, Allalasandra and Ambedkar Nagara in Ward No. 04
Agency	:	M/s Goutham Construction Prop. Sri. Raghunatha B P, No.47, 2nd Main, Muneshwara Layout, Laggere, Near Outer Ringroad, Bangalore-50058
Customer's Reference	:	BBMP/EE/YNK D/EPMT-14/W O/84/2021-22
Date of Receipt	:	24-02-2022
Sample Type	:	Plaster Sand
Reference to BIS codes	:	IS 383 : 2016 (Specification for Coarse and fine Aggregates) IS1542:1992 (RA 2019) (Sand for Plaster - Specification) IS: 2386 :1963(Part - 1, 3) RA2021 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption
Date of test	:	24-02-2022
Total weight taken	:	1000 grams

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS 1542:1992
1	10 mm	0	0	0	100	100
2	4.75 mm	35	35	3.5	96.5	95-100
3	2.36 mm	15	50	5	95	95-100
4	1.18 mm	50	100	10	90	90-100
5	600 micron	100	200	20	80	80-100
6	300 micron	215	415	41.5	58.5	20-65
7	150 micron	500	915	91.5	8.5	0-15
8	Pan	85	1000	100	0	---

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TEST REPORT OF CERAMIC TILES

WATER ABSORPTION

Sl.no	Weight of oven dry sample	Saturated weight of sample	Water absorption by mass	Average value of water absorption
1	1406	1455	3.49	2.85
2	1424	1464	2.81	
3	1464	1498	2.32	
4	1408	1454	3.27	
5	1434	1468	2.37	

MODULUS OF RUPTURE AND BREAKING STRENGTH

Sl.No

Sl.No.	Dimension (mm)			Wet Transverse Strength	Average
	L	B	T	(N/mm^2)	(N/mm^2)
1	300	300	6.04	14.8	14.66
2	300	300	6.06	14.2	
3	300	300	6.02	14.9	
4	300	300	6.06	14.8	
5	300	300	6.05	14.6	

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TEST REPORT FOR SAND MASONRY MORTARS

Lab ID	:	**CP-2022-09-21-23** **Date: 28-02-2022**
Project Name	:	Additional and Alteration of School Buildings at Kanakanagara, Allalasandra and Ambedkar Nagara in Ward No. 04
Agency	:	M/s Goutham Construction Prop. Sri. Raghunatha B P, No:47, 2nd Main, Muneshwara Layout, Laggere, Near Outer Ringroad, Bangalore-50058
Customer's Reference	:	BBMP/EE/YNK D/EPMT-14/W.O/84/2021-22
Date of Receipt	:	24-02-2022
Sample Type	:	Fine Aggregate, M.Sand for Mortar
Reference to BIS codes	:	IS 383 : 2016 (Specification for Coarse and fine Aggregates) IS: 2116-1980 (RA-2007) (Specification for Sand for Masonry Mortars) IS: 2386 :1963(Part - 1, 3) RA2021 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption
Date of test	:	24-02-2022
Total weight taken	:	1000 grams

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS: 2116-1980 (RA-2007)
1	4.75 mm	0	0	0	100	100
2	2.36 mm	85	85	8.5	91.5	90-100
3	1.18 mm	200	285	28.5	71.5	70-100
4	600 micron	146	431	43.1	56.9	40-100
5	300 micron	116.5	547.5	54.8	45.3	5-70
6	150 micron	412.5	960	96.0	4.0	0-15
7	Pan	40	1000	100.0	0.0	0

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TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-2022-09-21-23** **Date: 02-03-2022**
Project Name	:	Additional and Alteration of School Buildings at Kanakanagara, Allalasandra and Ambedkar Nagara in Ward No. 04
Agency	:	M/s Goutham Construction Prop. Sri. Raghunatha B P, No:47, 2nd Main, Muneshwara Layout, Laggere, Near Outer Ringroad, Bangalore-50058
Customer's Reference	:	BBMP/EE/YNK D/EPMT-14/W.O/84/2021-22
Date of Receipt	:	01-02-2022
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 Part 4, (RA 2019) Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 6, (RA 2019) Determination of Compressive Strength, Clause 6
Date of test	:	02-02-2022
Environmental Conditions during test	:	Temperature: 26°C Humidity: 72%

Compressive Strength

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	3 Days	28.5N/mm^2	Not less than 27 N/mm^2
2	7 Days	39.0N/mm^2	Not less than 37 N/mm^2
3	28 Days	58.5N/mm^2	Not less than 53 N/mm^2

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Authorized Signatory
Quality Manager

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QC ABSTRACT

NAME OF WORK: Additional and Alteration of School Buildings at Kanakanagara, Allalasandra and Ambedkar Nagara in Ward No. 04

SL NO	Item Of Work	Name of Test	Frequency of Test/Quantity	Executed Quantity	Number of Tests Required	Number of Tests Conducted
		Materials				
1	Cement	Fineness by dry sieving	One Test		1	1
		Finess by Air permeablity method	One Test		1	1
		Density	One Test		1	1
		Standard Consistency	One Test		1	1
		Initial Setting time	One Test		1	1
		Final Setting time	One Test		1	1
		Soundness (Le Chatelier's Method)	One Test		1	1
		Compressive Strength	One Test		1	1
2	Coarse aggregate(20 mm down size)	SIEVE ANALYSIS	One Test		1	1
		Flakiness Index	One Test		1	1
		Elongation Index	One Test		1	1
		Specific Gravity	One Test		1	1
		Bulk Density(Loose)	One Test		1	1
		Bulk Density(Compacted)	One Test		1	1
		Water Absorption	One Test		1	1
		Aggregate crushing Value	One Test		1	1
		Aggregate Impact Value	One Test		1	1
3	Fine aggregate	SIEVE ANALYSIS	One Test		1	1
		Water Absorption	One Test		1	1
		Specific Gravity	One Test		1	1
		Material finer than 75 micron	One Test		1	1
4	Steel	Bend test	One Test		1	1
		Tensile Test	One Test		1	1
		Yield Test	One Test		1	1
		ReBend test	One Test		1	1
5	Block(400*200*200)	BLOCK DENSITY	One Test		1	1
		WATER ABSORPTION	One Test		1	1
		DIMENSION ANALYSIS	One Test		1	1
		COMPRESSIVE STRENGTH	One Test		1	1
6	Brick	Compressive Strength	One Test		1	1
		WATER ABSORPTION	One Test		1	1
		EFFLORESCENCE	One Test		1	1
		DIMENSIONS AND TOLERANCES	One Test		1	1
7	PCC(M15)	Compressive Strength(7days and 28days)	4 sets		8	8
8	RCC(M20)	Compressive Strength(7days and 28days)	4 sets		8	8
9	RCC (M25)	Compressive Strength(7days and 28days)	4 sets		8	8
10	RCC (M30)	Compressive Strength(7days and 28days)	8 sets		16	16

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11	RMC (M20)	Compressive Strength(7days and 28days)	4 sets		8	8
12	CERAMIC TILES	MEASUREMENTS OF LENGTH, WIDTH AND THICKNESS	One Test		1	1
		MODULUS OF RUPTURE AND BREAKING STRENGTH	One Test		1	1
13	Mortar Sand	Water Absorption	One Test		1	1
		Specific Gravity	One Test		1	1
		Material finer than 75 micron	One Test		1	1
		Compacted Bulk Density	One Test		1	1
		Loose Bulk Density	One Test		1	1
		SIEVE ANALYSIS	One Test		1	1
14	Plaster Sand	Water Absorption	One Test		1	1
		Specific Gravity	One Test		1	1
		Material finer than 75 micron	One Test		1	1
		SIEVE ANALYSIS	One Test		1	1

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2022-09-21-23** **Date: 03-02-2022**
Project Name	:	Additional and Alteration of School Buildings at Kanakanagara, Allalasandra and Ambedkar Nagara in Ward No. 04
Agency	:	M/s Goutham Construction Prop. Sri. Raghunatha B P, No:47, 2nd Main, Muneshwara Layout, Laggere, Near Outer Ringroad, Bangalore-50058
Customer Reference	:	BBMP/EE/YNK.D/EPMT-14/W.O/84/2021-22
Date of Receipt	:	01-02-2022
Sample Type/ Size	:	20mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2021 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	01-02-2022

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 20MM DOWN COARSE AGGREGATE:

Total weight taken : 5000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	40 mm	0	0	0	100	100
2	20 mm	229	229	4.6	95.4	90-100
3	10 mm	2388	2617	52.3	47.7	25-55
4	4.75 mm	2042	4659	93.2	6.8	0-10
5	Pan	341	5000	100	0	-

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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2022-09-21-23** **Date: 03-02-2022**

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	10.9	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	13.5	
3	Specific Gravity	2.65	–
4	Bulk Density(Loose) (Kg/l)	1.47	–
5	Bulk Density(Compacted) (Kg/l)	1.51	–
6	Water Absorption(%)	0.22	–
7	Aggregate crushing Value(%)	22.5	Max 30% for Aggregates to be used in concrete for wearing Surface, In case Aggregate Crushing Value Exceeds 30% then the test for ten percent fines should be conducted for Aggregates to be used in concrete other than for wearing Surface.
8	Aggregate Impact Value(%)	23.7	30% for Aggregates to be used in concrete for wearing Surface, 45% for Aggregates to be used in concrete other than for wearing Surface.

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